

SKILLS

Software

Ruby • Python • Java • Scala
ES6 • Bash • Chef • Ruby on Rails
Node.js • Ember.js • HTML/CSS

Data

Apache Spark • Apache Kafka
Tableau • D3.js • Pandas • NumPy
scikit-learn • Keras • Theano
HDFS • Amazon S3 • PostgreSQL

EDUCATION

University of Waterloo

BASc. Systems Design Engineering

Expected April 2019 - 3.3 GPA

Undergraduate Courses

- ▶ Statistics
- ▶ Programming in C++
- ▶ Algorithms in Python and Java
- ▶ Engineering Economics
- ▶ Marketing Economics
- ▶ Human Factors Engineering
- ▶ Hardware Design
- ▶ Circuits and Instrumentation
- ▶ Linear Systems and Signals

Extracurricular Learning

- ▶ Fast.ai - Practical Deep Learning

Competitions

- ▶ Hack the North
Participant, September 2016
- ▶ Ontario Engineering Competition
Participant, January 2016
- ▶ World Mining Competition
Top 10 finisher, November 2015
- ▶ Waterloo Engineering Competition
Winner, July 2015

INTERESTS

- ▶ Classical, electric, acoustic guitar
- ▶ Full-stack foosball player
- ▶ Basketball, skiing, running
- ▶ Economics

EXPERIENCE

Apple Inc.

Software Engineer

Cupertino, CA | Jan. 2017 - Apr. 2017

- ▶ Liaised with hardware engineer users to develop enterprise data management software
- ▶ Implemented data entry system to enable an increase in user adoption of enterprise data system by 25%, using Ember.js and Ruby on Rails
- ▶ Prototyped ETL jobs in Spark offering 50% improvements in speed, guiding decisions on data pipeline infrastructure investments
- ▶ Developed SVM classifier to optimize hardware product performance specification using scikit-learn

Shopify Inc.

Data Engineer

Toronto, ON | May 2016 - Aug. 2016

- ▶ Developed Apache Spark job to convert 1 trillion JSON records in HDFS to parquet records, enabling development of ETL jobs with 30% speed improvement
- ▶ Integrated Confluent Kafka Connect to stream Kafka events to HDFS using Chef, scripts communicating with Zookeeper and Kafka
- ▶ Developed data visualization tool for conversion rates using D3.js, Lita chatbot library and Amazon Redshift to make product analytics data accessible in Slack to 10+ product teams
- ▶ Supported product managers and analysts in product analysis by designing sales funnel flows, instrumenting features and constructing SQL queries

Shopify Inc.

Full Stack Developer

Ottawa, ON | Sept. 2015 - Dec. 2015

- ▶ Developed and released Inventory Transfers feature, allowing 200,000+ merchants to manage incoming inventory in a streamlined manner using Ruby on Rails, JavaScript, MySQL
- ▶ Instrumented product to analyze user activity using Google Analytics and Splunk
- ▶ Worked in an agile, test-driven-development environment and continuously deployed code to one of the largest Ruby on Rails applications in the world (Shopify)

Grantek Inc.

Systems Designer

Montreal, QC | Jan. 2015 - Apr. 2015

- ▶ Developed manufacturing monitoring app using ASP.NET model-view-controller paradigm, C#, SQL Server, and Entity Framework
- ▶ Designed and built user interfaces for industrial manufacturing systems, preventing losses in mission-critical system oversight and control for several clients

PROJECTS

Customer Churn Prediction

Spring 2017

Predicting bank customer churn using binary classifier developed with Keras scikit-learn API on FloydHub deep learning infrastructure, cross-validated with 85% accuracy

Bitnomics

Fall 2017

Real-time bitcoin blockchain data processing pipeline built with Apache Kafka, Python consumers, a CockroachDB datastore, and a Node.js/React web app for visualization.